

WHAT IS CLAIMED IS:

- 5 1. A vehicle hinge for coupling a flap to a vehicle body, comprising:
 a first link,
 a second link,
 a first spring,
 wherein one of the first link and the second link are to be arranged
10 pivotably on a body of a vehicle and on a flap of a vehicle, respectively,
 wherein, when the flap is closed, the first spring pretensions the
 flap in an opening direction,
 a tensioning device for tensioning the first spring in a second
 opening phase of the flap, and
15 a locking device for retaining the tensioned first spring.
2. The vehicle hinge as claimed in claim 1, wherein one of the first link and
 the second link is mounted pivotably in a fastening part assigned to the
 body, and wherein the other of the first link and the second link is
20 mounted pivotably in a fastening part assigned to the flap.
3. The vehicle hinge as claimed in claim 1, wherein the first spring is
 designed as a leaf spring, and wherein the leaf spring acts upon one of
 the first link and the second link for pretensioning the flap.
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4. The vehicle hinge as claimed in claim 3, wherein the leaf spring has a
 convolution projecting in a direction of the acted-upon link and, when the
 flap is closed, bears in the region of the convolution against the acted-
 upon link.
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5. The vehicle hinge as claimed in claim 3, wherein the leaf spring acts
 upon the longer of the first link and the second link for urging the flap in
 the opening direction.

6. The vehicle hinge as claimed in claim 3, wherein the acted-upon link shows, in a coupling region with the body, a projecting section for tensioning the leaf spring when the acted-upon link is pivoted.
- 5 7. The vehicle hinge as claimed in claim 1, wherein the shorter of the first link and the second link includes the tensioning device for tensioning the first spring in a region of its body-side coupling.
- 10 8. The vehicle hinge as claimed in claim 1, wherein, before a completely open flap is reached, the first spring is pressed back into its starting position by the tensioning device, and wherein the locking device holds the first spring in a locked position when the flap is lowered.
- 15 9. The vehicle hinge as claimed in claim 1, wherein the locking device includes a second spring pretensioned in a direction of a path of displacement of the first spring, and wherein the second spring forms a stop in the direction of the path of displacement of the spring.
- 20 10. The vehicle hinge as claimed in claim 1, further comprising means for releasing the locking device before a subsequent opening of the flap.
11. The vehicle hinge as claimed in claim 10, wherein the release means do disengage the locking device after a predetermined position of the flap, preferably a closed position of the flap, is reached.
- 25 12. The vehicle hinge as claimed in claim 10, wherein one of the first link and the second link is pretensioned by the first spring, and wherein the release means are arranged on said pretensioned link.
- 30 13. The vehicle hinge as claimed in claim 10, wherein the release means is defined by a portion of one of the first link and the second link, said portion protruding in a lug-like manner.
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14. The vehicle hinge as claimed in claim 1, further comprising a drive unit for driving the hinge over the complete movement in at least one of an opening direction and a closing direction.
- 5 15. The vehicle hinge as claimed in claim 14, wherein the drive unit is a gas-filled spring pretensioning the flap in the opening direction.
- 10 16. The vehicle hinge as claimed in claim 1, wherein a section assigned to the first spring is in contact with the second link when the flap is in a closed position, and wherein a section assigned to the first spring is in contact with the first link when the flap is in an at least partially open position.
- 15 17. The vehicle hinge as claimed in claim 1, wherein the first spring is pivoted as it relaxes corresponding to a flap angle of between 2° and 12°.
- 20 18. The vehicle hinge as claimed in claim 1, wherein an opening movement brought about by an initial acceleration of the first spring merges continuously without a step into an opening movement brought about by a gas-filled compression spring.
- 25 19. The vehicle hinge as claimed in claim 1, wherein the first spring is out of contact with the flap, with the first link and with the second link during a part of the opening movement of the flap.
- 30 20. A vehicle hinge, comprising:
a first link and a second link for coupling a flap to a vehicle body,
a first spring for pretensioning the flap in a closed position into an opening direction during a first opening movement phase of the flap,
a drive member tensioning the flap into an opening direction throughout the opening movement of the flap, and
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a tensioning device for tensioning the first spring in a second opening movement phase of the flap.

- 5 21. The vehicle hinge as claimed in claim 20, wherein the drive member is a gas-filled spring.
22. The vehicle hinge as claimed in claim 20, further comprising a locking device for retaining the first spring tensioned in the second opening movement phase.
- 10 23. The vehicle hinge as claimed in claim 22, wherein, before a completely open flap is reached, the first spring is pressed back into its starting position by the tensioning device, and wherein the locking device holds the first spring in a locked position when the flap is lowered.
- 15 24. The vehicle hinge as claimed in claim 23, further comprising means for releasing the locking device before a subsequent opening of the flap.
- 20 25. The vehicle hinge as claimed in claim 20, wherein the first spring is a leaf spring acting upon one of the first link and the second link for pretensioning the flap.
- 25 26. The vehicle hinge as claimed in claim 25, wherein the acted-upon link is pretensioned by the first spring in an opening direction of the flap only during the first opening movement phase of the flap.
27. A vehicle hinge, comprising:
a first link and a second link for coupling a flap to a vehicle body,
a first spring for pretensioning the flap in a closed position of the
30 flap into an opening direction during a first opening movement phase of the flap, and

a tensioning device for tensioning the first spring against a pretension of the first spring in a second opening movement phase of the flap,

such that before a completely open flap is reached, the first spring is pressed back into its starting position by the tensioning device.

28. The vehicle hinge as claimed in claim 27, further comprising a locking device for retaining the first spring tensioned in a second opening movement phase and when the flap is lowered.

29. The vehicle hinge as claimed in claim 28, further comprising means for releasing the locking device before a subsequent opening of the flap.

30. The vehicle hinge as claimed in claim 29, wherein one of the first link and the second link is pretensioned by the first spring, and wherein the release means is arranged on said pretensioned link.

31. A vehicle, comprising:

a vehicle body,

a flap,

a four-joint flap hinge comprising a first link and a second link, the first link and the second link each being pivotably attached to the vehicle body and to the flap,

a gas-filled spring assigned to the vehicle body and to the flap,

and

a first spring arranged on the vehicle body, the first spring being in a tensioned position when the flap is closed and urging the flap into an opening direction,

wherein one of the first link and the second link comprises a portion coming into contact with said first spring in a second opening phase of the flap and tensioning the first spring back into said tensioned position.

32. The vehicle according to claim 32, wherein one of the first link and the second link is pretensioned by the first spring for urging the flap into an opening direction, and wherein the pretensioned link also comprises the portion for tensioning the first spring back into said tensioned position.

33. The vehicle according to claim 32, further comprising a locking device for retaining the first spring in said tensioned position, such that the first spring is kept unreleased when the flap is lowered.